

CLAIMS

We claim:

- 5 1. A detection system comprising:
a chamber for holding culture media, the chamber comprising a cellular
attachment surface; and
a detector disposed in the chamber comprising a piezoelectric substrate surface-
modified with a binding agent for binding the target substance and a pair of electrodes
10 coupling the piezoelectric substrate to an operating system,
wherein the detection system is configured to detect interaction of the target
substance with the binding agent.